



— Y-12 BULLETIN

A Newspaper For Y-12 Employees of Union Carbide Corporation—Nuclear Division

Vol. 22 — No. 4

OAK RIDGE, TENNESSEE

Wednesday, January 24, 1968



JOHN D. CAYLOR RECEIVES a letter in which Dr. C. E. Larson congratulates him for his development of a "CURVE-FOLLOWING APPARATUS." The U. S. Government recently filed a patent application on John's development. Above, from left, are George A. Strasser, superintendent of Technical Services; Caylor; N. K. Bernander, and Otto Briscoe, Head of the Plant Laboratory.

Y-12's Merwyn Sanders Named President Of Local Health Physics Society

Merwyn Sanders, Health Physics Supervisor in charge of Environmental Monitoring in Y-12, has been elected president of the East Tennessee Chapter of the Health Physics Society.

In their annual meeting Monday, January 22, the HPS installed their 1968 officers.

Sanders, who has been in Y-12 since 1951, attended the University of Tennessee and is a graduate of Tennessee Polytechnic University.

F. F. Haywood was named president elected in Monday's meeting. He is in ORNL's Health Physics Division. Dorothy M. Soard, also of ORNL, was named treasurer . . . and H. M. Butler, also of ORNL, was name-councilman.

The Society meets the last Monday of each month at the Oak Ridge Country Club. (Monday's meeting was an exception, as the installation festivities were held at the Barn Dinner Theater in Knoxville.)

Themes of the up-coming meetings are current and controver-



Merwyn Sanders

sial. In February the Society will hear Charles Easom, from the AEC headquarters in Washington, who will speak on "The Radiation Exposure Record and the Central Repository Concept."

In March Bishop Finger will speak on "Religion vs. Science." Biology's Dr. Upton will be the April speaker; and May's speaker will be Senator Howard Baker who will discuss "The Mid East and Desalination."

The public is invited to any meeting that might prove interesting.

'Astron' Is Subject At Thermonuclear Meet

Dr. V. K. Neil, University of California, will discuss "Astron" at this week's Thermonuclear Division Seminar.

The seminar is set for tomorrow, Thursday, January 25, at 9 a.m. in the TD conference room, Building 9201-2.

San Diego Plant Begins Production

The Electronics Division of Union Carbide Corporation has started production of integrated circuits at its new 35,000-sq.-ft. plant at San Diego, California. This is the first phase of a 320,000-sq.-ft. semiconductor research and manufacturing complex scheduled for completion in 1975.

The new San Diego facility is the third major construction project that Union Carbide has completed on the West Coast during the past month. The other two are a 25-million-pounds-per-year phenolic resin plant at Elk Grove, California (near Sacramento) and an 1,800 tons-per-day oxygen/nitrogen plant at Wilmington, California. Both plants began operations in December. The San Diego facility is the first of its kind in the area. The plant will employ 400 people by the end of 1968. Union Carbide continues to manufacture integrated circuits and field-effect transistors at its Mountain View, California plant, which started operations in 1964.

Located on a 22-acre site on Kearny Mesa north of San Diego's Mission Valley, the overall complex ultimately will have nine buildings ranging in size from 25,000 to 80,000 square feet.

Elizabeth Baranger Is Physics Seminar Guest

Elizabeth Baranger, University of Pittsburgh, will be guest at this week's Physics Division seminar. The subject of the seminar will be "Shell-Model Calculation of the Tin Isotopes with Core Excitation."

It is set Friday, at 3:15 p.m., in the East Auditorium of ORNL's 4500 building.

Credit Union Members Crowd Annual Meeting

A capacity crowd gathered last week for the annual meeting of Y-12's Credit Union.

And good news it was they heard, too. Assets for the Y-12 Employees Federal Credit Union climbed to an all-time high of \$6,617,201.87. As President P. L. Patrick pointed out, too, credit union members



Patrick

enjoy the same low interest rates that they did 17 years ago when the credit union was founded . . . (even lower in some instances).

Patrick did point out, however, that shareholdings increased by some \$382,000 in 1967, while loans to members increased only \$67,000. It was necessary to invest an additional \$488,000 in savings and loan associations, and loans to other credit unions, raising the total outside investments to \$3,447,800, with only \$2,993,628 invested in loans to members.

The year 1967 saw the Personal Service Loan, a more convenient way of borrowing on the personal loan up to the federal maximum amount of \$750, adapted in Y-12. It was widely accepted, too, by members.

Another semi-annual dividend of five per cent per annual for the second six months of 1967 was declared by the board of directors, making it the 10th year in a row that this rate was paid. This dividend will be posted to each members' shares automatically. Statements will be mailed out sometime next month to all members.

The officers departed from the usual custom of reading their reports. They merely made comments on the printed statements,

a copy of which will be mailed to each member.

Lorena Causey, manager-treasurer, spoke briefly of the 17 years' existence of the Y-12 credit group. "In 1967, we passed a landmark by loaning our \$50,000,000th dollar," she stated, and also pointed out that the credit union has handled in excess of \$97 million through the years. "In anybody's language, that's a lot of money," she added.

Fred Wilkinson, chairman of the credit committee, reported that some 5,170 loans were processed last year, amounting to \$4,595,249, an average of \$889 per loan. There were 637 automobiles secured through credit union loans, a total of 22 real estate transfers, 20 educational loans, five mobile homes, five campers, plus farm equipment, television sets, boats, motors and trailers and a myriad of other items. These are in addition to the non-secured signature loans and loans made with co-singers.

C. V. Ketron, chairman of the supervisory committee reported that approximately 49 per cent of the membership queried replied to the questionnaire on the ac-

Continued on Page 4

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
25 Days Or
669,000 Man-Hours
(Unofficial Estimate)
Through January 21
Without a Disabling
Injury
Safety At Home
At Work, At Play



**NOT FOR PROFIT,
NOT FOR CHARITY,
BUT FOR SERVICE.**

Make Sure Dependents Record Is Up-To-Date

Is your W-4 up-to-date? It is important that you keep your deductions up to snuff. Your exemptions, of course, change when you get married or divorced, when a dependent is born or dies, or when you begin or stop supporting a dependent.

If you expect to owe more income tax for 1968 than will be withheld from your salary, you may increase the withholding by claiming a smaller number of exemptions or you may enter into an agreement for additional amounts to be withheld.

The Bulletin

Published Weekly For The
Y-12 Employees Of
UNION CARBIDE
CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG *Editor*

Member



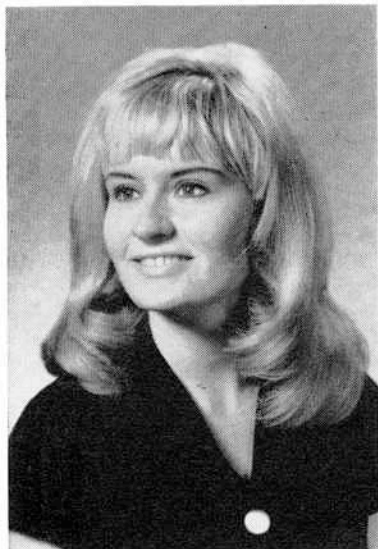
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Taylor Daughter Honored At ETSU



Karen Sue Taylor

Clarence V. Taylor, General Shop Job Liaison, who is doing work down in the TAT project just now, is justly proud of his daughter.

Karen has been elected to the University Center Council and is vice chairman of the House and Hospital committee at East Tennessee State University, Johnson City.

Karen is also a member of Gamma Theta Chapter of the Alpha Xi Delta sorority and a member of the Young Republican Club. She attended Carson-Newman College, Jefferson City, last year.

The Taylors live on Bonnyview Avenue, Kingston.

Grim Toll Of Eyes Continues Hour By Hour

Within the next three hours, at least one employee in this country will lose sight in one of his eyes while at work. Before the day is over, one man will lose his sight in both eyes because of a serious on-the-job injury.

Before this week has passed, some 63 persons will lose the sight of one eye, and at least seven will suffer loss of sight in both eyes. By the end of the month total losses of one eye will climb to 275, and figures for both eyes to 30.

By the end of this year, more than 400 persons will have lost sight in both eyes, and 3,300 are expected to lose the sight in one eye.

Before you take a chance with your eyes, remember you too can become a statistic.

Don't take chances with your eye sight!

LOST WASTELAND

A student, when asked where the English Channel was, replied, "I don't know. We probably can't get it on our cheap set."

Hall Is Director In School Board State-Wide Group

Luther S. Hall, Tool Dispatching, has been named a director in the Tennessee School Board Association to represent the Fourth Congressional District.

Hall, a three-year veteran of the Roane County school board served as its chairman the first term he was elected, and is the first member of Roane County school system to be named to the Association.

The Y-12er is past president of the Oliver Springs Lions, is a Master Mason, a member of the First Baptist Church, and active in the PTA in Oliver Springs.

A graduate of Oliver Springs High School, Hall is a veteran of the U.S. Air Force. He came to Y-12 June 17, 1954.

Mrs. Hall is the former Dorothy Sisson, and the Halls live on Spring Street, Oliver Springs. They have a son, Stanley, and a daughter, Janley.

Hall describes the Tennessee School Board Association as a politically active group which lobbies for better education facilities in the state. The board meets four times a year, and is representative of 40 to 50 school boards from across Tennessee.



Katy Kutkost
SEZ:

The New York Yankees now have company. For the first time since it all began in 1963, Y-12, We, You missed the action goal for an AEC Cost Reduction Report.

Here's the final boxscore for the period ending December 31, 1967.

	Received	% of Goal Achieved
Accounting & Budget	0	0
Assembly	23	100
Development	41	35
Engineering	121	78
Fabrication	84	74
Industrial Relations	6	40
Maintenance	262	105
Materials & Services	24	68
Metal Preparations	38	76
Production, Planning & Scheduling	22	74
PSS & Utilities	2	14
Technical	94	63

The goal of 720 green sheets was missed by only three . . . but in this business a miss by 'only that much' is as big as a million. Let's give 'em fits this year!

Medical Insurance Is Deductible, Says IRS

In last week's Bulletin, it was stated that "if the total medical expense does not exceed the required percentage of the taxpayer's income, then no insurance premiums are deductible."

This year's allowances permit the itemization of one-half on insurance premiums for medical care as long as they do not exceed \$150.

So, in figuring your income tax, you can count medical insurance . . . or at least half of it.

GETTING TO KNOW YOU

'If you hit a pony over the nose at the outset of your acquaintance, he may not love you, but he will take a deep interest in your movements ever afterwards.'

—Kipling



Luther S. Hall



'Every mile is two in winter.' Marking miles in Y-12 are more veterans of Union Carbide Corporation. Congratulations.

20 YEARS

Robert B. Wyrick, General Can Fabrication Shop, January 30.

15 YEARS

Roscoe F. England Sr., Material Specimen Shop, January 25.

Samuel J. Webster, Research Services, January 28.

Hubert L. Felix, H-1 Foundry, January 29.

10 YEARS

Reaford R. Bailey, General Machine Shop, January 27.

Harold T. Hill, General Shop Job Liaison, January 27.

No investment pays better dividends than safety.

Social Security Rate Not Changed For '68— But Base Changed From \$6,600 To \$7,800

While the 1968 social security taxes did not increase the first of January, you'll still be paying more this year if you earn more than \$6,600. Under the 1968 social security-medicare law recently passed by Congress the tax rate remains the same, 4.4 per cent paid by the employee, and 4.4 per cent paid by Union Carbide. However, the 1968 taxable wage base has been raised from \$6,600 to \$7,800.

If you earn more than \$7,800 annually, your tax has gone up some \$42.80 . . . or from \$290.40 to \$343.20 . . . and will be taken out of the first \$7,800 earned during the year. Social security tax withholdings will be stopped after the \$7,800 plateau has been reached.

For those earning less than \$7,800 per year, taxes are removed, naturally, all year.

According to Social Security officials the present schedule for taxes for the next 20 years are as follows:

FICA TAX RATE SCHEDULE

	Tax Rate	Maximum Amount
1968	4.4 %	\$343.20
1969-70	4.8 %	374.40
1971-72	5.2 %	405.60
1973-75	5.65 %	440.70
1976-79	5.7 %	444.60
1980-86	5.8 %	452.40
1987 and after	5.9 %	460.20

In other words, if you are not yourself drawing social security 20 years from now, but still paying it, you will be putting \$460.20 . . . to be matched by a like amount from Union Carbide.

SIGNAL FOR LANE CHANGE

Motorists usually signal their intention to turn . . . but many forget to do so when changing lanes, says the National Safety Council. Many states, including our own, say that failure to indicate either by hand signal or lights an intention to change lanes is a traffic violation.

HIGH PRICES

A man could retire comfortably if he could sell his experiences for what they cost him.

Identify Taxes With Each Payment

When paying tax payments, identify every one you make. Each year the Internal Revenue Service receives many tax payments from Tennessee taxpayers that cannot be credited to the proper account. These payments are placed in a special account until they can be properly identified and this delays processing, of course.

Checks or money orders submitted in payment of taxes should be attached to the bill or notice received. If a bill or notice was not received, a note should be enclosed stating the year of the tax, and the type of tax owed. Be sure to include your name, address, zip code and your correct social security number.

Another suggestion is to keep money order stubs or cancelled checks in case you are requested to verify any tax payments. A separate check or money order should be submitted in payment of tax for each return filed.



Two car pool members wanted from East Village to Biology Portal, straight day. R. E. Toya, extension 3-7351, or D. Sigmar, extension 3-5568.

Will join car pool from Elmwood Drive, Knoxville, to Biology Portal, straight day. Beverly Selmer, plant phone 3-5046, home phone Knoxville 689-2595.

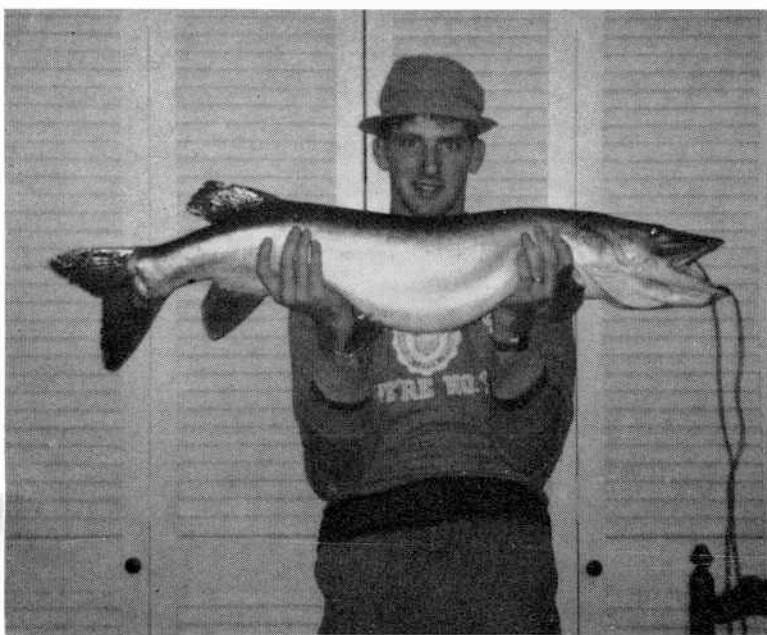
One rider wanted from South Knoxville area, U.T., along Solway Highway, to East, West, or North Portal, straight day. W. A. Sherrod, plant phone 3-5363, home phone Knoxville 577-0295.

Ride wanted from Ball Camp School to North or Central Portal, straight day. I. F. Hooks, home phone Knoxville 584-9274, plant phone 3-5986.

Ride wanted or will join car pool from Dutch Valley Road, Merchants Road, and Clinton Highway to North Portal, straight day. J. R. Johns, plant phone 3-5769, home phone Knoxville 689-5639.



GUESS WHO? Give up . . . well, this one was made almost 55 years ago . . . so don't feel too bad. The little lass is Hazel Presley . . . now Hazel Lemons, Chemical Services. The photograph was made about 1912 in Sweetwater, Hazel's hometown.



LEE WICKHAM, TOOL ENGINEERING, is another Y-12er added to the muskellunge-catchers. This one, pulled out the 13th of January, came from Norris Lake, off Rogers Boat Dock, naturally. Y-12 fishermen are advised that there is a category for the muskie in the 1968 Rodeo! Meanwhile, the winners in 1967's Rodeo are announced below.

Muskie Added To Species Race For 1968 Fishing Rodeo; Last Year's Winners Listed

The Recreation Department has released the names of winners in the 1967 Fishing Rodeo, and once again some prizes went begging.

Winners, by species, were:

LARGEMOUTH BASS

1. J. R. Cooter, H-1 Foundry, seven pounds, 15 ounces.
2. B. O. Miller, Chemical Services, seven pounds, 13 ounces.

Only two entries.

SMALLMOUTH BASS

1. John S. Orr, Area Five Maintenance, five pounds, six ounces.
2. Fred B. Guttery, Chemical Services, five pounds, five ounces.
3. C. Yeary, H-2 and F-Area Shops, five pounds, two ounces.
4. Clifford Herrell, Rover Fabrication, four pounds, 13 ounces.

STRIPED BASS

1. E. M. Miller, 9766 Machine Shop, two pounds, 15 ounces.
2. J. W. Graves, Chemical Services, two pounds, 12 ounces.

Only two entries.

BREAM or BLUEGILL

1. Jim O'Kain, Electrical Engineering, eight ounces.
2. R. P. George, Electrical Engineering, six ounces.

Mustangs Take Mixed Alley Lead

The Hits & Misses took the only sweeping win last week in the Mixed Bowling League, hitting the Twisters. The Mustangs moved into first place by taking three at the expense of the Rollers. The Roses 'N Thorns warped the Goofers for three, and the McSprays did likewise by the Alley Cats.

Bob Forseman, Mustangs, swept all male honors, singles of 203 scratch, 224 handicap; series of 553 and 616. Mabel Tyer, Hits & Misses, rolled a 176 scratch, 219 handicap single . . . Gwen McLaughlin, McSprays, put a 460 scratch series down; and Virginia Newby, Goofers, rolled a 594 handicap series.

The Roses 'N Thorns posted a 669 scratch single count, while the Goofers rolled a 818 handicap single. The R 'N T team returned to take series honors . . . 1838 scratch, 2973 handicap.

League standings follow:

Team	W	L
Mustangs	12	4
Rollers	11	5
Hits & Misses	11	5
Twisters	8	8
Roses 'N Thorns	7	9
McSprays	7	9
Goofers	4	12
Alley Cats	4	12

Only two entries.

SAUGER PIKE

1. Jack Johnson, Physical Testing, three pounds, one ounce.
2. Billy S. Carter, A-2 Shops, 9212, two pounds, 12 ounces.
3. Ernest L. Bentley, Safety Department, one pound, seven ounces.

Only three entries.

CRAPPIE

1. S. R. Anderson, H-1 Foundry, two pounds, six ounces.
2. Ernest L. Bentley, Safety Department, two pounds, four and one-half ounces.
3. William H. Rollen Jr., Tool Grinding, two pounds, four ounces.
4. W. Y. Rollen, A-2 Shops, 9212, one pound, 15 ounces.

WALLEYED PIKE

1. E. M. Baird, Utilities Administration, 11 pounds, 14 ounces.
2. B. O. Miller, Arc Melting, eight pounds.
3. J. W. Gossage, General Machine Shop, five pounds, four ounces.

Only three entries.

ROUGH FISH

1. J. R. Moyer, Buildings, Grounds and Maintenance Shops, Blue Cat, 24 pounds, 13 ounces.
2. James W. Graves, Arc Melting, Shovelbill Cat, 21 pounds.
3. B. O. Miller, Arc Melting, Drum, five pounds, 12 ounces.
4. Jim O'Kain, Electrical Engineering, Carp, five pounds, nine ounces.

TROUT

1. Milton Carlton, Research Services, three pounds, 10 ounces.
2. W. T. Mitchell, Research Services, three pounds.
3. J. W. Jackson, SS Warehousing, and Shipping, one pound, six ounces.

As has been previously stated, there are plenty of blanks for the 1968 Fishing Contest, both at the Recreation Office, and the PSS Office., 9706-2. There is a species in the new contest for muskies, too.

So don't let any species go begging next year. Get those entries in, as you catch them!

CULTURE GAP

"The ideals of a people are usually a century ahead of their time, but their conduct is usually a century behind." — Sydney J. Harris.

Say it with safety and save the flowers.

Sunflowers Tied With Rounders As C Race Tightens

The Sunflowers moved up to tie the Rounders in C Bowling last week, after a four-point win over the King Pins. The Rounders ran by the Badgers for three. The Royal Flush vastly improved their standings by taking four from the Fireballs. Down in the standings, the Parbusters put three over on the HiLifers, and the Big Five bested the Rollmasters for three. Sharing two, it was the Rodders and Invalids.

Norm Jarvis, Big Five, rolled a 235 scratch single, a 626 scratch series. Roy Roberts, Parbusters, put a 243 handicap single on the records (Roy rolled a 597 scratch series) . . . while Ray Galford, Sunflowers, rolled a 668 handicap series. (Ray posted a 617 scratch series!)

The Big Five swept team honors . . . 925 scratch, 1032 handicap in singles . . . series of 2619, 2950.

League standings follow:

Team	W	L
Rounders	7	1
Sunflowers	7	1
Royal Flush	6	2
Parbusters	5	3
HiLifers	4	4
Big Five	4	4
Badgers	4	4
Rodders	3	5
Invalids	3	5
Fireballs	3	5
Rollmasters	2	6
King Pins	0	8

Beavers Still Top Volleyball Team

Volleyball action began Thursday on Court A, as the Charley Browns and K-25 Gashouse Gang shared two games each . . . the CB's winning 17-15, 15-8 . . . while the Gang took three and four games 15-8, 15-3. The Old Men trounced the Mix-Ups for the full count, 15-5, 15-3, 15-8, and 15-12. The Dirty Half Dozen nixed the Naughts 15-8, 15-3, 15-11 and 15-8.

Meanwhile, back on Court B, it was the K-25 Hawks over the Mountaineers 15-3, 15-3, and 15-3. The Mountaineers took game three 15-13. The Beavers bested the Ecobums, to stay on top of the heap, 15-7, 15-8, 15-10 and 15-9. The Set-Ups clipped the Neophytes 15-3, 15-5, and 15-5.

League standings follow:

Team	W	L
Beavers, Y-12	27	1
Old Men, ORNL	23	5
Dirty Half Dozen, ORNL	22	6
Ecobums, ORNL	21	7
Set-Ups, ORNL	20	8
K-25 Hawks	13	15
Mountaineers, Y-12	11	17
Naughts, ORNL	10	18
Charley Browns, ORNL	7	21
Neophytes, Y-12	5	23
K-25 Mix-Ups	5	23
K-25 Gashouse Gang	4	24

Next week's volleyball action will take place Tuesday instead of Thursday. The volleyball play also necessitates cancellation of Men's Physical Fitness classes Tuesday.

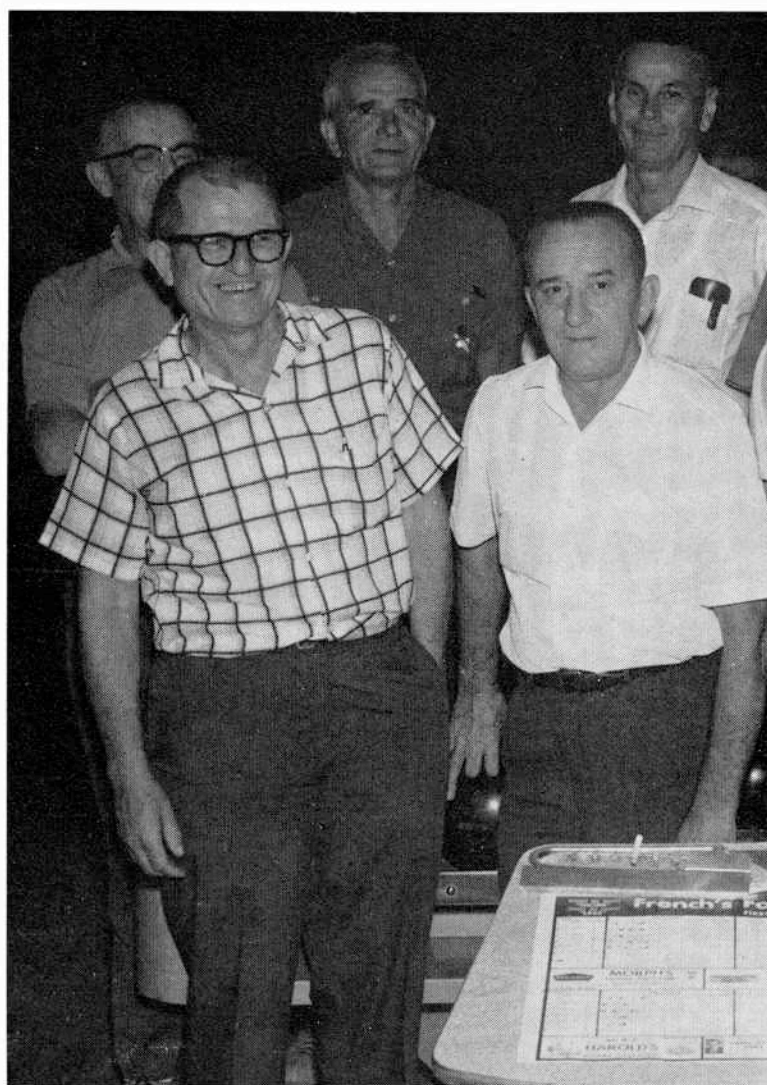
'Ducks Unlimited' Will Form Local Chapter Here

Harry Conner, Production Scheduling, wonders if anybody in Y-12 is interested in joining "Ducks Unlimited."

An attempt to organize Oak Ridge chapter of "Ducks Unlimited" will be made Thursday, February 1, in the club house at the Oak Ridge Sportsman's Association . . . 7:30 p.m.

Two excellent films will be shown, "The Story of Ducks Unlimited," and "The Black Duck."

Harry says anyone interested should come on out next week and help organize the club.



THE EAGLES ARE ANOTHER long-standing team in the Classic Bowling League, firing into the alleys every Thursday afternoon. In front, from left, are John Kimsey and Steve Pintur. In the rear are Ed Sise, Max Bezik and John Myers.

Playboys Are Scant Classic Alley Tops Table Tennis Action Picks Up Again

The Playboys pulled into a one-half point lead in the Classic Alley race last week, bowling three points better than the Markers. The Rippers rolled over the Has Beens by the same advantage. The Pinbusters posted the Rebels, the Eightballs ate the Tigers, and the Cubs overcame the Smelters . . . all by the same point-count. The Screwballs-Splinters, All Stars - Bumpers matches ended in draws.

The Eagles took the only four-point win of the week from the Swingsters.

Norman Shambelin, Markers, marked a 224 scratch, 249 handicap game. Bill Smith, Eagles, put a 589 scratch, 664 handicap series down for the books.

The Bumpers were best on singles in scratch count with 919 . . . while the Eagles got a 1043 single handicap count. The Eagles' series of 2645 scratch, 3050 handicap were high.

League standings follow:

Team	W	L
Playboys	11	5
Rippers	10½	5½
Rebels	10	6
Bumpers	10	6
All Stars	10	6
Markers	9½	6½
Has Beens	8	8
Splinters	8	8
Pinbusters	8	8
Eagles	8	8
Swingsters	7	9
Eightballs	7	9
Cubs	7	9
Tigers	5½	10½
Screwballs	4½	11½
Smelters	4	12

Exercise In Moderation For Age, Health's Sake

Moderate exercise in amounts that recognize age and physical condition is recommended. Work up to heavier exercise gradually. Eighteen holes of golf or three sets of tennis doubles may be fine for one person but not for another. If you are going on a hunting trip, or will be walking in the woods all day, build yourself

Geoffrey Newman continues to hold a perfect record in the X Table Tennis League. Last week he skunked Jerry Keyes, and Herve Derrien. Bill Motley downed Derrien for three and Keyes for two.

Herb Mook defeated Roy Huddleston for three.

X League standings:

Player	W	L
Geoffrey Newman	18	0
Lloyd Wyatt	11	4
Bill Motley	11	7
Herb Mook	8	10
Herve Derrien	7	11
Roy Huddleston	6	12
Bill Foutz	5	10
Jerry Keyes	3	15

Y action saw Gordon Brewer down Bob Coveyou for three, Rokuro Oyamada for two. Bob Coveyou won by forfeit over Bob Brown. Fred Wetzel took two from Paul Kasten and downed Brown by forfeit.

Art Weinberger earned three at the tune of a forfeit also, as did Francois Kertesz. Oyamada was chalked with a similar win.

Y League standings:

Player	W	L
Gordon Brewer	17	4
Bob Coveyou	16	5
Fred Wetzel	8	7
Art Weinberger	5	4
Al Norris	9	9
Paul Kasten	9	9
Francois Kertesz	5	10
Ed Gambill	4	5
Rokuro Oyamada	5	7
Bob Brown	0	18

No action took place in the Z league, as standings below remain the same.

Z League standings:

Player	W	L
Bob Smith	14	1
Joe Lewin	9	3
Bill Hackett	7	5
Dave Allen	3	6
A. B. Meservey	3	6
Jim Hallau	0	3
Tudor Boyd	0	3
Winfred Collins	0	9

up physically to the pace so that you can take it. And, if you are older, don't try to keep up in sports with younger people. It's a good idea when you get tired to stop. Don't take unnecessary chances.



ELECTRONIC CRIME PREVENTION AIDS — Modern technology combined with new concepts in packaged power to increase the effectiveness of crime prevention will be demonstrated on the 1968 season premiere broadcast of "The 21st Century" Sunday, January 28, 6 p.m., EST, in color on CBS Television Network. The program is carried locally by WBIR-TV, Channel 10. Two-way wrist radios, straight out of Dick Tracy, narcotic detectors, metal detectors, and a videotape playback of a crime are all seen above in police action in the future.

'68 Premiere '21st Century' Program Deals With New Technology In Crime Prevention

Twenty-first century science and technology and their use in crime prevention will be reported on the 1968 season premiere broadcast of "The 21st Century," Sunday, January 28. The program will be carried at 6 p.m., EST, in color over CBS Television Network, and is aired locally by WBIR-TV, Channel 10.

Highlights of the broadcast will include demonstrations of olfactronics, detection and analysis of odors; and voice printing, identification of individuals by the characteristics of their voices when studied with a spectrograph.

"The 21st Century" continues to be sponsored in the public interest by Union Carbide Corporation. The sponsor is expanding distribution of Teacher's Guides for the program to educators throughout the country. Every high school and college will be covered. The guides are prepared by a professional educator and designed to enable them to use the weekly broadcasts as a classroom teaching resource.

The award winning series, television's first continuing assignment to report on what science and technology have in store for the future, is produced by CBS News with Walter Cronkite as principal reporter. Sunday's premiere show was written by Fred Warschovsky, science editor for "The 21st Century."

The broadcast reports that nuclear physics, electronics, chemistry and computer technology are being used increasingly by police officers in crime prevention and apprehension of criminals. It records that the tools of the super detectives—Dick Tracy, Sherlock Holmes, Sam Spade—are being equaled and surpassed by research scientists.

The supernose of Sherlock Holmes could never match the potential of olfactronics. In a demonstration of the technique of detecting and identifying odors which the human nose cannot detect it will be determined whether a suspect has handled narcotics

or explosives, where he has been recently and what he has done.

A similar artificial nose will be tested as a bomb sniffer to detect dynamite and persons who have handled the explosive.

A voice printer which can identify persons when no fingerprints are available will be seen in action. Because the vocal cavities, and the size and shape of the tongue, lips and jaw vary among individuals, the recording of every voice is unique. Audiologists say the chances of two people having the same voice is as remote as the chance they will have the same fingerprints.

Computerized handling of fingerprint identification in a matter of minutes instead of hours, and identification of potential crime suspects will also be demonstrated.

The 1968 series will also report on such subjects as medical electronics, infant education, prolongation of life, 21st century industries and the teenager of the future.

A few of the highlights of the first season's broadcasts included genetics, lunar and space exploration, oceanography, transplant surgery, and leisure.

Executive producer for "The 21st Century" is Burton Benjamin, and Isaac Kleinerman is producer.

Plan Your Time So Dangerous Rushing Is Out

Are you in the habit of running downstairs, along aisles, without concern for yourself and others, rushing to get out of the building and parking lot ahead of the crowd at closing time?

Do you allow enough time to get to work so you can do so without speed that endangers your life and others around you?

Plan your time schedule for getting things done at a normal rate of speed without hurrying. Allow enough time to enjoy living without tension and rush.

Y-12 Eagles Boast Basketball Record

Basketball still belongs to the Health Physics and Bombers teams, both from ORNL, with seven wins each . . . no losses. Y-12's gallant Eagles follow in third place with as many wins, but with two losses.

Action began last week as the TK's took on the Bombers . . . falling to the lead team 42 to 36.

Jim Shoemaker was in his usual role as lead-man with 10 through the bucket. Roy Nabors scored eight.

For the TK's it was Doug Raymer, with an even dozen to his credit.

Monday's second game saw Combustion clobber the K-25 Falcons 38 to 23. Charlie Kirkpatrick put 14 on the scoreboards for the winners; Churchill Moore did as much for the losers.

Atoms vs. Bat Boys

Two Y-12 teams finished off action Monday as the Atoms defeated the Bat Boys 42 to 28. Don Stinnett and Tim Butler led the big Atoms, each with 10 . . . Don Forrester tallied eight.

Hugh Beeson paced the losers with 13, Romeo Green eight.

Wednesday's action began as the Eagles trounced past the Bat Boys in no contest at all to the tune of 82 to 28. Bill Kirksey led the Eagles with 15, as they sailed to an easy lead in the early part of the game, and were never in trouble after that.

Hugh Beeson sank some pretty outside shots for 13 points for the losers.

Health Physics Win Again

Health Physics again showed their metal, by registering win number seven, outclassing Radioisotopes 66 to 35.

Controlling both backboards, they were led by Jim Carter, as usual, with 14 . . . and Jim Treadwell, with 18.

Dick Wagner and Joe Crunk put nine and eight on the boards for the losers.

The Chargers took charge of the Sharp Shots in final action of the week, 51 to 40.

The SS team made this one a good ball game but the height advantage finally showed as Ray Leffler again hit his stride, with 19 big points.

Danny Ramey put 14 through the basket; Ed Baliff, 12, for the losers.

League standings follow:

Team	W	L
Health Physics, ORNL	7	0
Bombers, ORNL	7	0
Eagles, Y-12	7	2
Chargers, Y-12	5	3
TK's, ORNL	4	2
Combustion, ORNL	3	3
Radioisotopes, ORNL	2	5
K-25 Falcons	2	5
Atoms, Y-12	1	5
Sharp Shots, ORNL	1	6
Bat Boys, Y-12	0	8

World's Strongest Man Here Saturday

Paul Anderson, the undisputed 'world's strongest man,' will appear at the Robertsville Junior High School Saturday, January 27, at 7:30 p.m. He will give a demonstration of weightlifting and other athletic feats, as well as bear a personal witness of his faith.

Anderson was born in Toccoa, Georgia, and after graduating from high school there, attended Furman University on a football scholarship. It was at Furman he became intrested in weight lifting.

Thus he was launched into a career which gave him national, world and Olympic titles. He has toured the world as a good will ambassador for the State Department and lifted in command performances for heads of state. The Russian people were so impressed



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Rainbows Honor Charlotte Beeler



Charlotte Beeler

Charlotte Beeler was recently installed as Worthy Advisor of Beaver Ridge Assembly No. 70 Order of Rainbow for Girls.

She is a junior at Karns High School where she is a member of the Beta Club, Spanish Club and Sports Intramurals. Miss Beeler was Junior Varsity Cheerleader during her freshman and sophomore years, and is a member of Ball Camp Baptist Church.

Charlotte's parents work in Y-12 . . . her father, W. D. Beeler, is in Y-12's Buildings, Grounds and Maintenance Shops; and her mother, Dorothy Beeler, is employed by ORNL in the Biology Division.

There are two more Beeler children . . . Larry a freshman at Karns, and Donna in the seventh grade at Ball Camp Elementary School.

The family resides on Yarnell Drive, Route 3, Concord.

with his tour in 1955, that they called him a wonder of nature.

Paul has participated very successfully in several sports, including football, boxing and wrestling. He has lifted more weight in one single attempt than anyone in the history of the world, 6,270 pounds in the back lift! Some of his other activities include movie and television appearances. He has participated in the Billy Graham Evangelistic Crusade.

Anderson and his wife Glenda operate the Paul Anderson Youth Home, in Vidalia, Georgia, endeavoring to develop good citizens through spiritual guidance, education, and physical fitness.

He continues to train with weights along with his appearances in churches as a lay minister, with youth groups, civic clubs, conventions and television. Recently, a poll showed Paul Anderson as one of the 100 best known people in the world.

His appearance here Saturday is under the sponsorship of the Baptist Men of Oak Ridge.

Plug security leaks.

Recreation



Monday, January 29

BOWLING: C League, 5:45 p.m., Ark Lanes.

TABLE TENNIS: 7 p.m. Oak Ridge Wildcat's Den.

PHYSICAL FITNESS (For Women): 7:30 p.m. Oak Ridge High School Girls' Gym.

BASKETBALL: Beginning 6:30 p.m. Oak Ridge High School Gym. Atoms vs. Chargers; Sharp Shots vs. Bombers; Combustion vs. TK's.

Tuesday, January 30

VOLLEYBALL: Beginning 6:30 p.m., Oak Ridge High School Gym. Court A. Old Men vs. Neophytes; Eagles vs. Health Physics; Naughts vs. Set-Ups. Court B: Mix-Ups vs. Ecobums; K-25 Gas-house Gang vs. K-25 Hawks; Mountaineers vs. Dirty Half-Dozen.

Wednesday, January 31

BASKETBALL: Beginning 6:00 p.m., Oak Ridge High School Gym. Atoms vs. K-25 Falcons; Bombers vs. Health Physics; TK's vs. Sharp Shots; Combustion vs. Radioisotopes.

Thursday, February 1

BADMINTON: Informal Play, Employees and Spouses, 7:30 p.m. Jefferson Junior High School Gym.

BOWLING: Classic League, 5:45 p.m. Ark Lanes.

Sunday, February 4

SKEET TOURNAMENT: 1 p.m. Oak Ridge Sportsman's Association range.

Credit Union

Continued from Page 1
curacy of their accounts. This is well above the required percentage. Ketron also pointed out that losses this year due to bad debts were not as great as they were in the past two years. "This indicates a healthier economic climate so far as the Credit Union is concerned," he stated.

New officers named were Harley C. Orange and James F. Morehead, both for three-year terms on the board of directors. L. R. "Dick" Loveless was elected for a one-year term.

Mrs. Causey was re-elected to the Credit Committee.

Door prizes went to members J. W. Emch, and J. O. Stephens . . . Emch winning the portable color television, and Stephens the black and white portable.

The new board of directors met briefly Thursday after the annual meeting to elect officers.

Members were reminded once more that the member-owned, member-run credit union exists only to serve its membership better. Constantly newer and better ways are being sought to improve the many services offered to members.

Remember, the Credit Union is yours, USE IT.